



RE: Stormwater Technical Team Conf. Call

Non Responsive

Carl Stivers

to:

TARNOW Karen E, Amanda Spencer, Scheffler, Linda, Andy Koulermos, Dawn Sanders, Kristine Koch, Laura Jones

04/30/2007 01:23 PM

Cc:

"Valerie Oster", rjw, "Jim McKenna", "Rick Applegate", "Amanda Shellenberger"

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From: "Carl Stivers" <cstivers@anchorenv.com> Sort List...

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Cc: "Valerie Oster" <voster@anchorenv.com>, <rjw@nwnatural.com>, "Jim McKenna"

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<RICKA@BES.CI.PORTLAND.OR.US>, "Amanda Shellenberger"

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History: This message has been replied to.

Stormwater Technical Team –

Here are the highlights from today's progress call as requested. The next call will be on May 16th starting at 1 pm. I will send around a reminder email with the phone number.

The items in the agenda below were discussed. The following agreements/decisions were reached:

- ⌚ Continue with composite water sampling at all stations that have any data gaps. However, where logistical issues exist, the collection team will focus on getting the sites with the larger numbers and types of data gaps. This issue will be re-visited at the next call to see how this approach is impacting budget. It was clarified that when just a few parameter data gaps are being filled that the analyses would be for those missing parameters plus supporting "conventional" parameters of TSS, TOC/DOC. In addition, any time dissolved metals are collected, total metals will also be analyzed.
- ⌚ Depart from the FSP storm criteria and allow grab water sampling to take place for any storm that produces flow that also has a 24-hour antecedent dry condition. As a consequence, the sampling team will collect composite water samples at all stations where composite data are still needed for any storm that is expected to meet all the FSP storm criteria. If the FSP criteria for rainfall amount or duration are not expected to be met, then the collection team will collect grab samples at the 10 grab sample sites. The grab sampling will target collecting samples as soon possible after runoff is observed to start at each site.
- ⌚ Move the designation of the target sediment trap field replicate station from WR-67, which is collecting very little sediment, to WR-22, which is collecting sufficient sediment for a field replicate.
- ⌚ Re-visit contingency analysis approaches where sediment traps have less than the minimum required sample volume to obtain all parameters and all QA/QC at the next call, and as necessary, have an in person meeting thereafter to decide on an exact approach for each site.
- ⌚ Move the Isco sampler and sediment trap at WR-145 to WR-142 do to site activities creating limited runoff and access issues at WR-145. The sediment sample from WR-145, will be archived for potential compositing with WR-142 sediment samples at the end of the sampling period. Visual observations will be made to see if the samples from the two sites look very different. Compositing decisions on this site will be made in coordination with the Stormwater Technical Team based on these observations.

Please let me know if I missed or miss stated anything.

Carl

Carl Stivers

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Stormwater Tech. Team –

Here is a map that will help facilitate our discussions on Monday regarding the WR-145 (Gunderson) outfall.
Thanks.

Carl

Carl Stivers

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Stormwater Technical Team –

We are still on for our call on Monday at 10:30 am. Attached are some spreadsheets updating our progress on stormwater and sediment traps. Please use the number:

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Topics we would like to discuss are:

- Stormwater collection progress
 - Judging completeness for stormwater composite sampling
 - Grab organics filtered/unfiltered sampling starting with next event
- Sediment trap collection progress
 - Collection approach if we do not have enough sediments
 - Pros and Cons of less analytes vs. less QC
- Moving WR-145 due to access issues
- Any other questions folks may have

Talk to you then.

Carl

Carl Stivers

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Stormwater Technical Team -

This email is to summarize our meeting yesterday with an emphasis on the agreements reached. It was agreed that there would be another Stormwater Tech Team update call on April 30th at 10:30 am. We will use the same conference call line unless otherwise notified: Non Responsive pass code Non Responsive

Also:

- Use of time-paced sampling at OF49 and Gunderson WR-147 – Various aspects of the problems encountered and potential solutions for measuring flows at these sites was discussed. It was agreed that they should be conducted in the future using the water level data for compositing (as opposed to rain gauge data or potentially flawed flow data). Linda and Amanda Shellenberger agreed to discuss further various options for OF49. Linda has already followed up with several suggestions for troubleshooting the flow sensor at OF49 and (unless that troubleshooting allows consistent flow measurements) has

recommended conducting future compositing at this site based on level data.

- ε Ability to relax the 24 hour collection time for storms that occur on late Friday and Saturday. Site access issues on the weekend were discussed and the potential for arranging weekend access to delay ability to sample weekend storms for many sites for quite some time. It was agreed that the 24 hour collection time should be maintained where ever possible but that if this was not possible for a weekend storm, the samples would be collected as soon as possible. Reporting would describe where and when the 24 hour recovery time could not be attained. Samples obtained after 24 hours, would not be analyzed for filtered (dissolved) metals or DOC, but would be analyzed for total metals and TOC.
- ε Sediment trap inspection results so far. The fact that about the minimum required amount of sediment was being collected at most sites assuming the collection rate stays the same for the next two months was discussed. It was agreed that no contingency actions will be taken at this time, but this situation would be closely monitored to see if the collection rate stays at the needed pace. This issue will be revisited at the next meeting based on the most recent inspection results.
- ε Ability to collect two storm events over this past weekend. It was discussed that at Siltronics it was possible to obtain two storm samples that meet the storm criteria in the FSP due to the 24 hour dry period in between. (Note, after the meeting Anchor found that this was also possible at OF-M2). The pros and cons of collecting such an additional sample were discussed. The overall preference expressed by the majority of the group was that it would be better to collect samples from storms that were a little more spread out over time, but technically the sampling of both storms is not prohibited by the FSP. It was requested by Carl Stivers that we go ahead and sample and analyze the second storm to hedge against the possibility of not getting enough storms at these sites. If at a later date it was determined that an additional (fourth) storm could be obtained at these sites, it is possible that this would be possible within the contingencies of the overall budget. However, the budget would likely only allow for this at a few sites. (Note we have submitted the second storm sample for both Siltronics and OFM2 to the laboratory for analyses). It was also agreed that the filtered and unfiltered metals could be obtained from the second storm since the recovery time was met. (And this was done later in the day for Siltronics and OFM2.)

Please email all with any issues or key points I may have missed. Thanks.

Carl

Carl Stivers

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Stormwater Technical Team -

As you may know, we have completed 22 of the 23 sediment trap and water sampler installs. In addition, last week we successfully captured a composite stormwater event for 10 of the 18 stations installed at that time. Since then we have had some rain, but generally too little in any one storm to meet our 0.2 inch criteria. We hope that next week one, or possibly even two useable storms may occur. Also, we have started to see some 1 month inspection results from a few sediment traps and will get a few more of these later this week.

Based on the work so far, there are several potential deviations to the FSP that we would like to discuss with the Stormwater Tech Team including:

- ε Use of time-paced sampling (using hourly rain gauge data to weight aliquots for composite) at OF49 and Gunderson WR-147 due to unresolvable issues with getting a consistent flow measurement at these sites
- ε Ability to relax the 24 hour collection time for storms that occur on late Friday and Saturday. We have weekend access to only four sites, so we cannot feasibly collect samples within 24 hours, if that 24 hour limit occurs within the weekend. We would only relax this requirement for storms occurring in this period, and essentially we would collect samples first thing Monday morning. The reason for this is that we are passing on some potentially good storms over the weekend due to this requirement, and it seems preferable to get the stormwater samples a few hours late rather than not at all.
- ε Inspection results for traps so far indicate very little sediment in traps, even for those traps that are permanently submerged in any flow conditions (e.g., in catchbasins) and where sediments are building up in the conveyance structures in those same locations. We are collecting more inspection data this week and will have a better handle on range of collection rates next week. I don't have a specific deviation for this, but the contingencies suggested in the FSP appear problematic for reasons we can discuss.

Given the timing of that last item, I think it would be good if we could have a call to discuss these items either Friday this week or next week. Please let me know of your available times within that period, and I will try to set something up.

Also, we can discuss any other questions you may have about progress at that time.

Thanks.

Carl